

ABSTRACT OF THE DISCLOSURE

A hydrophilic collector for alkaline secondary batteries is formed of a nonwoven fabric plated with nickel in which the nonwoven fabric is hydrophilized by sulfonation, a gaseous fluorine treatment, or vinyl monomer grafting. A method for making the collector includes a hydrophilizing step of a nonwoven fabric comprising at least one of a polyolefin fiber and a polyamide fiber, and a plating step of applying nickel plating to the hydrophilic nonwoven fabric. Preferably, the nickel plating is electroless plating, and the nonwoven fabric has a plurality of micropores extending from one surface to the other surface thereof. An electroplating film may be deposited on the electroless plated film, if necessary. This collector facilitates assembling a battery which exhibits improved high-rate discharge characteristics due to improved adhesiveness of the plated nickel film to the nonwoven fabric.

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